

ABSTRACT OF THE DISCLOSURE

A dispensing system for a vending machine includes a vend motor, a cradle, a load bar and a push arm. Upon selection of a particular product, the vend motor rotates the cradle, causing the product to emerge
5 from the vending machine. The cradle is designed to accommodate a wide array of container sizes. The dispensing system incorporates a rotation sensor, a position sensor, and a lift arm. The sensors enable accurate rotation of the cradle through a plurality of vend angles depending upon the particular product being vended, while the lift arm
10 cooperates with the push arm and load bar to refill the cradle after a series of product containers have been dispensed. In addition, the vend motor includes a soft start control that prevents instantaneous rotation of the output shaft so as to prolong an overall operational life of the motor.